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SEAL PUMP

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 (MACHINERY -- Machine Elements)

ABSTRACT

PROBLEM TO BE SOLVED: To suppress oil leaked in a rotary shaft part in the lowest level so as to prevent gas from moving in the rotary shaft part by arranging a ball bearing for supporting oil seal and a load by two lips, between the rotary shaft of the power leading-in side of a rotary vane type pump and a side flange, and filling grease in a clearance between two lips.

SOLUTION: In a rotary vane type rotary pump, four rotary vanes are arranged, and a side flange 11 is penetrated on one end side of a rotary shaft 10 connected to a motor for driving the rotary vanes 9. On the other side, namely, on a power leading-in side provided with a fan 18, a ball bearing 15, an inner oil seal 20a in which sealing performance is improved at the time of positive pressure in a casing, and an outer oil seal 20b in which sealing performance is improved at the time of negative pressure, are penetrated, and thereby, the power leading-in side is extendingly arranged. In each oil seal 20a, 20b, a lip is integratedly formed on the inner side of a seal case, and grease having a melting point of 150 deg.C or more is filled between lips of both oil seals 20a, 20b.

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